

CLAIMS

What is claimed is:

1. An angle adjustment structure for an electronic apparatus having a display unit, comprising:

5 a shaft hole mount fixed in an inner side wall of a case shell of the electronic apparatus, wherein a hole is formed for axial connection in the shaft hole mount and a connection part is formed at the bottom of the shaft hole mount for a connection element to penetrate therethrough;

10 a rotation axle mounted in the hole of the shaft hole mount, wherein a plurality of locking grooves are formed at a peripheral outer rim of the rotation axle and at a predetermined inclination angle;

 a rotation pole having a connection pawl formed at one end thereof, wherein the connection pawl is inserted in the rotation axle to allow the rotation pole to be rotatably mounted in the shaft hole mount; and

15 a supporting foil received in the connection part of the shaft hole mount, wherein a protruding curved portion is formed on a surface of the supporting foil facing the hole of the shaft hole mount;

20 wherein by coupling between the locking grooves of the rotation axle and the curved portion of the supporting foil, the rotation pole is rotatably fixed at the predetermined inclination angle on a support plane and the electronic apparatus is inclined on the support plane to allow a viewing angle of the display unit to be adjustable.

2. The angle adjustment structure of claim 1, wherein a shaft support is formed in the shaft hole mount and has the hole for axial connection, and the connection part is formed at the bottom of the shaft support and has a guiding hole, so as to allow the connection element to penetrate through the guiding hole and a corresponding connection hole on the inner side wall of the case shell of the electronic apparatus to fix the shaft hole mount to the case

shell of the electronic apparatus.

3. The angle adjustment structure of claim 2, wherein a basis mount is formed on the connection part of the shaft hole mount corresponding to the inner side wall of the case shell of the electronic apparatus, and a connection hole is formed on the basis mount
5 perpendicularly corresponding to the guiding hole of the connection part of the shaft hole mount.
4. The angle adjustment structure of claim 1, wherein the supporting foil has two ends thereof each formed with a bent portion, and a groove hole is formed in the connection part of the shaft hole mount and has two ends thereof each formed with a concave groove,
10 so as to allow the supporting foil to be received in the groove hole and the two bent portions to be engaged with the concave grooves, such that the supporting foil is supported by the bent portions above the bottom of the groove hole of the connection part by a suitable distance.
5. The angle adjustment structure of claim 1, wherein a hollow hole is formed in the rotation
15 axle corresponding to the inner side wall of the case shell of the electronic apparatus to allow the connection pawl of the rotation pole to be inserted in the hollow hole.
6. The angle adjustment structure of claim 1, wherein the rotation axle is formed with a hollow hole and has an axle center whose outer periphery is formed with a plurality of axle ribs extending to a wall of the hollow hole, the axle ribs being coupled to connection
20 holes associated with the hollow hole, to allow the connection pawl of the rotation pole to be inserted in the connection holes and connected with the rotation axle.
7. The angle adjustment structure of claim 6, wherein a through hole is formed in the connection pawl of the rotation pole, and a connection hole is formed at the axle center of the rotation axle corresponding to the connection pawl
- 25 8. The angle adjustment structure of claim 1, wherein the supporting foil is made of an elastic material, and the curved portion is formed at the center of the supporting foil and

capable of deforming the supporting foil in response to an external force to allow the supporting foil to be uncoupled from the locking grooves of the rotation axle

9. The angle adjustment structure of claim 1, wherein the rotation pole is comprised of a jacket board in connection with a body board, the body board having one end formed with a plurality of connection pawls and the other end formed with a flat groove hole for a first locking piece to penetrate therethrough.

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10. The angle adjustment structure of claim 9, wherein a groove hole is formed on the inner side wall of the case shell of the electronic apparatus corresponding to the groove hole where the first connection piece penetrates at one end of the body board, to allow a second locking piece to penetrate through the groove hole of the electronic apparatus.

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11. The angle adjustment structure of claim 10, wherein the first locking piece and the second locking piece are made of magnetic materials.

12. The angle adjustment structure of claim 1, wherein the curved portion of the supporting foil is formed at the center of the supporting foil and has a triangular conical shape.

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